ABSTRACT

A method and apparatus for mitigating co-channel and inter-channel interference in an antenna array system. It is determined by a base station or other transmitter employing an antenna array that transmission of at least a first downlink signal will generate a co-channel or inter-channel ghost signal at at least one location that may be susceptible to such ghost signal (e.g., as interference). As such, a weight to be applied to the at least first downlink signal is adjusted to reduce mitigate the undesirable effect of the ghost signal at the location before transmission of the at least first downlink signal.